Recovery Plan Action Status

Plan Name: Recovery Plan for the Bog Turtle, Northern Population

Plan Status: Final Plan Date: 15-May-01 Lead Agency: USFWS

Lead Office: Pennsylvania Ecological Services Field Office 234-4090)

| Species | Action Priority # | Action # | Action Description | Action Status | Est. Initiation Date | Est. Completion Date | Responsible Parties | Work Type | Labor Type | Action Comments |
|---|-------------------|----------|---|--------------------|----------------------|-------------------------|--|--|---|--------------------------------------|
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 1 | Map/identify watersheds or wetland systems of occurrences | Partially Complete | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Management: Planning | Internal Field Assistance | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 10 | Identify project/permit categories that may adversely affect bog turtles and their habitat | Ongoing Current | FY 1995 - FY 1999 | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, Federal or State departments of transportation, Environmental Protection Agency, State Wildlife Agency | Management: Planning | Internal Field Assistance | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 11 | Train appropriate federal, state, and local agency staff in the recognition of bog turtle habitat, and threats to habitat and species | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Other: Information and Education | Internal Field Assistance | Continue at 2K level indefinitely |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 12 | Avoid and minimize direct and indirect adverse effects to bog turtles and their habitat | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, Federal or State departments of transportation, Environmental Protection Agency, State Wildlife Agency | Management: Land Use, Management: Planning | Internal Field Assistance, Internal Technical Assistance | No separate cost |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 13 | In each RU, identify and priority sites for appropriate conservation efforts | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Pending survey results in 3.1.2 |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 14 | Develop voluntary, cooperative stewardship programs to conserve the bog turtle and it's habitat on private property | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Partners for Fish and Wildlife, Nongovernmental Organizations , State Wildlife Agency | Management: Habitat Maintenance and Manipulation | Internal Field Assistance, Internal Technical Assistance | Intermittent there after as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 15 | Develop a model to identify potential bog turtle habitat and locate additional bog turtle sites | Ongoing Current | FY 2005 | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | funding after year 1 is for model refinement |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 16 | Develop and use a standardized bog turtle survey protocol | Ongoing Current | FY 2000 - FY 2004 | FY 2006 | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Research: Other Information, Research: Population Surveys | Contract | Additional as needed; see Appendix B in this plan |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 17 | Ensure that qualified searchers conduct bog turtle surveys | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Management: Identify/Protect Foraging, Breeding and Mig Habitats | Internal Technical Assistance | Additional 3K intermittently as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 18 | Investigate the effectiveness, risks and benefits of bog turtles at historical sites in the Prairie Peninsula/Lake Plain RU | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 19 | Conduct surveys to re-evaluate the presence of bog turtles at historical sites in the Prairie peninsula/Lake Plain RU | Ongoing Not Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 2 | Protect bog turtle sites through purchase and conservation easements | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, Nongovernmental Organizations, State Wildlife Agency, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife | Acquisition: Easement, Acquisition: Fee Title | Internal Administrative, Internal Field Assistance | TBD |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 20 | Determine effective population size | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 21 | Use available genetic data to assist conservation efforts | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | No separate cost; planning task |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 22 | Restore bog turtle population within Prairie Peninsula/Lake Plain RU through reintroductions | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | To be initiated after year 3 as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 23 | Use a standardized protocol to evaluate bog turtle sites | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Additional 7K per year as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 24 | Conduct research/studies to understand and ID the degree to which land-use activities alter bog turtle habitat | Ongoing Not Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | TBD |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 25 | Identify the safest and most effective methods for controlling invasive native and exotic plants, and setting back succession | Ongoing Current | FY 2005 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Management: Habitat Maintenance and Manipulation | Internal Field Assistance, Internal Technical Assistance | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 26 | Determine the safest and most effective methods for using grazing to restore and maintain bog turtle habitat | Partially Complete | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, Private landowners, State Wildlife Agency | Management: Habitat Maintenance and Manipulation | Contract, Internal Field Assistance, Internal Technical Assistance | Intermittent - 2K approx. every 3 years |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 27 | Identify methods to reconnect fragmented habitat | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Subsequently as needed, cost TBD |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 28 | Restore hydrology to altered bog turtle sites | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, U.S. Army Corps of Engineers, Private landowners, Federal or State departments of transportation, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Future \$ depends on success of initial treatments |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 29 | Reconnect fragmented habitats using methods identified in Task 6.3.4 | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Cost TBD |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 3 | Monitor the status of and threats to extant populations | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife | | Species Expert, Volunteer | Continue until delisted. Implementation includes tasks 1.3 & 7.1.1 |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 30 | Develop a survey protocol to evaluate the population status of bog turtle sites | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 31 | Implement strategies developed in Task 7.1 | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | TBD - includes task 7.1.5 |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 32 | Train law enforcement personnel | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 33 | Create a repository of information that could assist LE personnel in identifying areas from which turtles have been taken | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Continue with 2K per year as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 34 | Investigate the effectiveness, risks and benefits of PIT tagging wild and captive bog turtles as a research tool and deterrent to collection/trade | Ongoing Not Current | FY 2006 | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, State Wildlife Agency | Research: Other Information, Research: Population Assessment | Contract, Internal Technical Assistance | Ongoing coordination |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 35 | Develop and use genetic markers to identify the origin of seized turtles | Ongoing Not Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Geological Survey, State Wildlife Agency | Research: Genetics | Contract | markers developed; 1K annually through recovery period |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 36 | Inform and educate individuals/entities who own or manage bog turtle habitat about the species and threats to its existence | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 37 | Amend and/or clarify the scope of state and municipal regulatory protections afforded to bog turtles and their habitat | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency, Local and Municipal Governments | Work type not yet selected | Labor type not yet selected | No separate cost |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 38 | Conduct surveys to re-evaluate the presence of bog turtles at historical sites in other recovery units | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Additional 2K in year four |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 39 | Conduct surveys to locate additional populations of bog turtles | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Army Corps of Engineers, Federal or State departments of transportation, State Wildlife Agency, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife | Management: Land Use, Management: Planning | Contract, Internal Technical Assistance | 10K total after year 3 - does not include survey's pursuant to project planning |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 4 | Identify methods to prevent adverse hydrological changes to bog turtle habitat, and restore hydrology at altered sites | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 40 | Determine family size | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 41 | Re-evaluate recovery criteria | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | initiate after year 3, no separate costs |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 42 | Develop a protocol to assess the health of bog turtles prior to reintroduction | Not Started | | | Academic institutions | Work type not yet selected | Labor type not yet selected | Additional 1K in year four |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 43 | Develop a strategy for reintroducing bog turtles into areas from which they have been extirpated | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 44 | Restore bog turtle populations within the Prairie Peninsula/Lake Plain RU through reintroductions | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | To be initiated after year 3 as needed; funding TBD |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 45 | Identify and map the groundwater recharge and supply zones associated with bog turtle sites | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Geological Survey | Work type not yet selected | Labor type not yet selected | Additional 20K in year four |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 46 | Ensure that agency expertise is available to assist in the management, restoration and maintenance of bog turtle habitat | | FY 2006 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Management: Habitat Maintenance and Manipulation | Internal Field Assistance, Internal Technical Assistance | Cost will be part of operating budgets of agencies |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 47 | Determine what constitutes a "viable" bog turtle habitat | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 48 | Determine the baseline health parameters of free- ranging bog turtles | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 49 | Develop a protocol to assess the role of disease in wild bog turtle populations | Not Started | | | Academic institutions | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 5 | Control succession and invasive exotic plants | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, Private landowners, U.S. Fish and Wildlife Service, Partners for Fish and Wildlife, Nongovernmental Organizations, State Wildlife Agency, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife | Management: Habitat Maintenance and Manipulation | Contract, Internal Field Assistance | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 50 | Determine the effects of predation on population size, structure, and recruitment | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Nongovernmental Organizations , State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Intermittently, some costs incorporated into monitoring tasks |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 51 | Identify appropriate population management techniques | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Additional 3K per year as needed |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 52 | Identify protocols to be followed as to the disposition of confiscated turtles | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, Academic institutions | Work type not yet selected | Labor type not yet selected | |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 53 | Investigate the potential for using neighborhood watches to monitor bog turtle sites for illegal collecting activity | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | If deemed beneficial, coordinate an ongoing program |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 54 | Promote the development and implementation of laws regulating intro-and inter-state commerce in state and federally species | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Law Enforcement Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | ES also includes Division of Endangered Species in Washington, D.C. |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 55 | Develop and distribute education materials about the bog turtle | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Department of Agriculture, Nongovernmental Organizations, State Wildlife Agency, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife | Work type not yet selected | Labor type not yet selected | As needed including 9.2.2 |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 56 | Make effective use of the media in conducting outreach efforts | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Other: Information and Education | Internal Field Assistance | Will involve staff time, no additional costs |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 57 | Develop and implement programs targeted specifically at local decision makers | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Materials development and refinement |

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| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 3 | 58 | Develop RU specific recovery tasks recognizing that each RU will require a different prioritization of approaches | Ongoing Current | | | U.S. Fish and Wildlife Service, Ecological Services Division, Academic institutions, State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Priority setting complete by 2003 - no separate costs; implementation TBD |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 1 | 6 | Determine and implement effective strategies for preventing and prosecuting offenses relating to the illegal collection, trade, and possession of bog turtles | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Other: Law Enforcement | Internal Field Assistance | No additional costs |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 7 | Map contiguous wetland habitat | Not Started | | | U.S. Fish and Wildlife Service, Ecological Services Division, Nongovernmental Organizations , State Wildlife Agency | Work type not yet selected | Labor type not yet selected | Continue as needed. Note, tasks 1.1.1-1.1.3 will be implemented as per task 1.1.4 |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 8 | Include all extant bog turtle sites on the state freshwater wetlands, maps, as appropriate | Ongoing Not Current | | | State Wildlife Agency | Work type not yet selected | Labor type not yet selected | 5K additional in 2004-2005; some costs included under tasks 1.1.1 & 1.1.2 |
| Bog (=Muhlenberg) turtle (Clemmys muhlenbergii) | 2 | 9 | Ensure that adequate screening tools for early identification of projects that may affect bog turtles are used | Ongoing Current | FY 2000 - FY 2004 | | U.S. Fish and Wildlife Service, Ecological Services Division, State Wildlife Agency | Management: Planning | Internal Technical Assistance | No separate cost |